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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,853	03/30/2004	Hyun Sook Kim	1594.1362	2350
21171 7590 03/21/2007 STAAS & HALSEY LLP			EXAMINER	
SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			HECKERT, JASON MARK	
			ART UNIT	PAPER NUMBER
	,		1746	
			<del></del>	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/811,853	KIM ET AL.			
Office Action Summary	Examiner	Art Unit	-		
•	Jason Heckert	1746			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	ith the correspondence a	ddress		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI 16(a). In no event, however, may a rill apply and will expire SIX (6) MOI cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on      This action is FINAL. 2b)⊠ This      Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ace except for formal mat		e merits is		
Disposition of Claims					
4) ⊠ Claim(s) 1-9 and 22 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-9 and 22 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers		•			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b)  objected to drawing(s) be held in abeya ion is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 C			
Priority under 35 U.S.C. § 119	•	•			
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/21/06, 4/19/04.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-9, 22 are rejected under 35 U.S.C. 102(b) as being fully anticipated by 2. Orszulik. Orszulik discloses a rinsing method for a drum washing machine comprising spinning a rotatable drum 16 after a washing step and introducing water to the interior of the drum via a spray nozzle 36 while it is spinning. Orszulik discloses that the spraying cycle can be as short as 5 seconds and that the drum can continue to rotate at various speeds for longer than that. In one embodiment (page 12), the drum is rotated at a first speed for 2 minutes while the rinse water is sprayed on clothes, and then accelerated to a second rotational speed while the water is not sprayed on clothes, so that the rinse fluid can be drained from the clothes in the rotatable drum. Therefore, the time period of spraying water is shorter than the time period of rotating the drum until termination. Orszulik discloses pumping the water out of the sump 26 located in the washtub beneath the drum so as to drain the machine. Orszulik also states that after 2 minutes at the second rotational speed, the cycle is continued, so that more water is sprayed on at a lower speed, and then drained at a higher speed. Hence, Orszulik discloses an intermittent spin-drying operation. In regards to claims 5-8, Orszulik discloses on page 9 "... if the first rotational speed is constant, the introduction of rinse water to the drum

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16 can commence before the first rotational speed is reached and, as a further alternative, the introduction can continue after the drum speed increases above the first rotational speed." Therefore, according to Orszulik, the spraying of water can also occur during a time when the rotational speed of the rotatable drum rises, or more specifically, water can be introduced for a first time at or before the constant speed, and then continue for more time when the rotational speed rises after achieving the constant speed. Orszulik also discloses a control mechanism 10 that controls the amount of spray water introduced into the rotatable drum over a period of time as little as 5 seconds or as great as 2 minutes. Hence, Orszulik discloses the use of preset times. Finally, Orszulik discloses the use of a final spin step 112 occurring after the consecutive and repetitive rinsing steps 106 and 108.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Heckert whose telephone number is (571) 272-2702. The examiner can normally be reached on Mon. to Friday, 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**JMH** 

MICHAEL BARR
SUPERVISORY PATENT EXAMINER